

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Agency Interest No. 2062
Activity No.: PER20080004

Mr. Dan Diller
Plant Manager
Air Products and Chemicals, Inc.
14700 Intracoastal Drive
New Orleans, Louisiana 70129

RE: Part 70 permit modification and renewal, NOLA Facility, Air Products Chemicals, Inc., New Orleans, Orleans Parish, Louisiana

Dear Mr. Diller:

This is to inform you that the Part 70 operating permit for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the application submitted and the approval in no way relieves of the applicant of the obligation to comply with all applicable requirements.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2140-00016-V6

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:CXL
cc:EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

I. BACKGROUND

Air Products and Chemicals, Inc., operates an industrial gas production facility (NOLA) in the Almonaster Industrial District of Orleans Parish under Permit No. 2140-0016-V5 dated May 29, 2007.

II. ORIGIN

A permit application dated September 8, 2008, along with supplemental information dated September 10 & September 30, 2008, January 30 & March 19, 2009, were submitted requesting a renewal and modification of the Part 70 operating permit for the NOLA Facility. On December 28, 2007, Air Products submitted a minor modification application to correct the annual operating hours for EP-94. That application was incorporated into the 9/8/2008 submittal.

III. DESCRIPTION

The Air Products, New Orleans, (NOLA) facility manufactures hydrogen(H₂), oxygen(O₂), nitrogen(N₂), and argon (Ar₂) as both gaseous and liquid products within Hydrogen Plants "A", "C", and "D", Liquid Hydrogen Plants "A" and "B", Carbon Dioxide Plants "A" and "B", and the Air Separation Plant with 2 nitrogen liquefiers. H₂ and CO₂ are produced via reformation of steam and pipeline supplied natural gas. Production related combustion sources are fueled by natural gas/off-gas. O₂ and N₂ are produced via the cryogenic separation of ambient air.

Within the "A", "C", and "D" H₂ plants, hydrogen gas is produced via the catalytic reformation of steam and pipeline-supplied natural gas (aka: steam-methane reformation). Hydrogen gas can be directed to Liquid Hydrogen Plants "A" & "B" for liquefaction and onsite storage. Hydrogen gas can also be directed offsite via the customer pipeline. Liquid hydrogen is distributed to customers via tank trailer.

Carbon dioxide gas is manufactured with the "C" hydrogen plant process. The gas is directed to the CO₂ Plants for liquefaction and onsite storage. Product CO₂ gas is also sent offsite via a customer pipeline. Liquid CO₂ is distributed to customers via tank trailer and rail car.

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

In the Air Separation Plant, liquid oxygen and liquid nitrogen are produced via the cryogenic separation of ambient air. The liquid products are used internally within the process units, or are distributed via tank trailer to offsite customers.

The NOLA facility has the following plants:

- "A" Hydrogen (H_2) Plant ("A" Feedgas Plant)
 - Desulfurization
 - Catalytic Reformation
 - Shift Conversion
 - Condensate Separation/Deaeration
 - Purification
 - Production Hydrogen
- "C" Hydrogen (H_2) Plant
 - Desulfurization
 - Catalytic Reformation (Primary Reformer)
 - Catalytic Reformation (Secondary Reformer)
 - Shift Conversion
 - Condensate Separation
 - Condensate Stripper
 - CO₂ Removal/Product
 - Production Hydrogen
- "D" Hydrogen (H_2) Plant
 - Desulfurization
 - Catalytic Reformation
 - Enhanced Heat Transfer Reformer (EHTR)
 - Shift Conversion
 - Condensate Separation
 - Purification
 - Production Hydrogen
- "A" and "B" Liquid Hydrogen Plants
- "A" and "B" CO₂ Plants
- Air Separation Plant

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

On September 8, 2008 submittal, the NOLA facility proposed the following modification and reconciliations:

- EP-1, "C" H₂ Plant CO₂ Stripper Vent
 - Change calculation basis due to process change
- EP-4, "C" H₂ Plant Condensate Stripper
 - Change to GC XVII Activities
- EP-30a, "C" H₂ Plant Reformer Flue Stack
 - Change the emission factor. CO emissions changed from 4.22 TPY to 35.26 TPY
 - Change the emissions of NO_x & PM₁₀
- EP-30b, "C" H₂ Plant Auxiliary Boiler
 - Reduce the firing rate
 - Revise the emission factor, CO emissions changed from 12.24 TPY to 31.74 TPY
 - Change the emissions of NO_x, PM₁₀, SO₂, & VOC
- EP-59, "C" H₂ Plant Flare
 - Change emission calculation basis
- EP-63, "A" H₂ Plant Desulfurization Reactivation Vent
 - Change to GC XVII Activities
- EP-65, "C" H₂ Plant Desulfurization Reactivation Vent
 - Change to GC XVII Activities
- EP-76, "C" H₂ Plant Startup/Shutdown Emissions
 - Revise emission calculation
 - CO emissions changed from 71.05 TPY to 171.16 TPY.
- EP-85, Refinery Off-gas Pipeline Fugitive Emissions
 - Revise VOC emission calculation
- EP-91, "B" CO₂ Plant TSA Reactivation Vent
 - Change emission calculation basis to reflect actual process conditions
- EP-93, "A" HP 50 psig Steam Vent
 - Delete this emission point
- EP-94, "D" H₂ Reformer Flue Vent
 - Change operating hours
- EP-95, "D" H₂ Plant Vent Header
 - Change CO emission calculation
- EP-104, "A" CO₂ Plant TSA Reactivation Vent
 - Change emission calculation basis to reflect actual process conditions

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

On September 30, 2008 submittal, the NOLA facility proposed the following modification and reconciliations:

- EP-42A, Oil/Water Separator
 - Change to Insignificant Activities
- EP-8B, Oil/Water Separator
 - Change to Insignificant Activities

On January 30, 2009 submittal, the NOLA facility proposed to add the ION Transport Membrane (ITM) Syngas Project. The process is a variation of existing auto thermal steam reforming. The product syngas is a mixture of hydrogen and carbon monoxide, with small amounts of water, carbon dioxide, and methane. The ITM process can be divided into four steps:

- Catalytic Pre-Reforming
- ITM Syngas Reactor
- Syngas cooling
- Disposition of Product Syngas

Permitted emissions from the facility in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	41.52	53.38	+11.86
SO ₂	14.36	13.60	-0.76
NO _X	363.23	375.65	+12.42
CO	323.57	504.33	+180.76
VOC	110.46	150.93	+40.47

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Ammonia	31.80	41.12	9.32
Benzene	0.003	0.003	-
Formaldehyde	0.09	0.09	-
Hydrogen sulfide	0.07	<0.001	-0.07
Methanol	73.40	101.29	+27.89
Naphthalene	0.001	0.001	-

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Toluene	0.004	0.004	-
n-Hexane	2.24	2.21	-0.03
Total	107.61	144.72	+37.11

Other VOC (TPY): 6.21

The changes are due to the proposed modifications and reconciliation stated above.

Estimated emissions increases due to the above referenced modification and reconciliation based on actual to potential, irrespective of any decreases, in tons per year is as follows:

Pollutant	Actual Emissions	Post Project Emissions	Change	PSD Threshold
PM ₁₀	-	0.05	+0.05	15
SO ₂	-	-	-	40
NO _x	-	5.30	+5.30	40
CO	4.20	32.67	+28.47	100
VOC	36.13	70.67	+34.54	40

*The increases are based on the potential emissions. The "reasonable possibility" standard is not required.

PSD review is not required as the net increase in emissions is less than the significance levels.

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations, Part 70 operating permit program, New Source Performance Standards (NSPS) and NESHAP. Prevention of Significant Deterioration does not apply.

NOLA Facility is a major source of toxic air pollutants (TAPs). Ammonia, and methanol emissions are above their minimum emission rates (MER) under Louisiana Air Toxic Regulations. Maximum achievable control technology (MACT) is not required for Class III TAPs. Impacts of pollutants on air quality are below toxic ambient air standards (AAS) and national ambient air quality standards (NAAQS). This facility is part of a

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

major source of toxic air pollutants. The air toxic compliance plan was approved June 20, 1994.

V. CREDIBLE EVIDENCE

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, Louisiana on April XX, 2009. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on April XX, 2009. The draft permit was also submitted to US EPA Region VI. XX comment was received.

VI. EFFECTS ON AMBIENT AIR

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: ISCST 3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
Ammonia	8-hr	168.07	640
Methanol	8-hr	4851.76*	6240

*Results of a screening analysis

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

VIII. GENERAL CONDITION XVII ACTIVITIES

Activity	Frequency Hr/Yr	PM ₁₀	SO ₂	NO _X	CO	VOC	Other
		TPY					
"A" H ₂ Plant Deaerator Vent	60 hrs/yr	-	-	-	-	0.346	0.912
"A" H ₂ Plant Desulfurizer Reactivation Vent	744 hrs/yr						0.02
"C" H ₂ Plant Condensate Stripper	8760 hrs/yr					0.886	1.16
"C" H ₂ Plant Catalyst Reduction Heater Flue	144 hrs/yr	0.01	-	0.102	0.025	0.002	-
"C" H ₂ Plant Desulfurizer Reactivation Vent	626 hrs/yr						0.047
"C" H ₂ Plant Wabash Boiler Reliability Testing	32 hrs/yr	0.015	0.001	0.241	0.15	0.011	
"C" H ₂ Plant 104 Vent	4380 hr/yr	-	-	-	1.392	-	-
"D" H ₂ Plant Startup/Shutdown Emissions	10 events/yr	0.091	0.006	0.097	0.114	0.152	0.033
"D" H ₂ Steam Drum Sample Coolers	8760 hrs/yr	-	-	-	-	0.11	0.135
"D" H ₂ Steam System Continuous, Intermittent Blowdown	8760 hrs/yr	-	-	-	-	0.246	0.249
"D" H ₂ Deaerator Vent	40 hr/yr	-	-	-	-	-	0.031
Emergency Generator	720 hr/yr	0.002	<0.001	0.022	0.018	0.001	-
Emergency Generator Weekly Testing	52 hr/yr	<0.00 1	<0.001	0.002	0.001	<0.00 1	-
Maintenance Turnaround Generators	864 hr/yr	0.094	0.441	2.552	1.586	0.149	-
Maintenance Turnaround Air Compressors	240 hrs/yr	0.02	0.234	1.586	0.148	0.023	-
Portable Light Tower Generators	840 hrs/yr	0.024	0.022	0.339	0.073	0.027	
Painting Project Air Compressor	810 hrs/yr	0.223	0.208	3.139	0.676	0.255	
Fire Water Pumps Usage	468 hrs/yr	0.133	0.124	1.874	0.404	0.152	

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

IX. INSIGNIFICANT ACTIVITIES

ID No.	Description	Citation
IA-A9(1)	03.40 Drier Reactivation Vent	LAC 33:III.501.B.5.A.9
IA-A9(2)	PSA Feed Analyzer	LAC 33:III.501.B.5.A.9
IA-A9(3)	Gas Chromatograph	LAC 33:III.501.B.5.A.9
IA-A12(1)	Rental Cooling Tower	LAC 33:III.501.B.5.A.12
IA-D(1)	Air Separation Unit (ASU) Hydrocarbon Absorber Reactivation Vent	LAC 33:III.501.B.5.D
IA-D(2)	Demin Area Sulfuric Acid Storage Tank, 275 gals	LAC 33:III.501.B.5.D
IA-D(3)	Sulfuric Acid Storage Tank 14.40, 2500 gals	LAC 33:III.501.B.5.D
IA-D(4)	MEA Storage Tank, 20,370 gals	LAC 33:III.501.B.5.D
IA-D(5)	"C" H ₂ Plant NH ₃ Reflux Wastewater Tank	LAC 33:III.501.B.5.D
IA-D(6)	Air Separation Unit 150 gal Oil/Water Separator	LAC 33:III.501.B.5.D
IA-D(7)	"A" CO ₂ Plant 100 gal Oil/Water Separator	LAC 33:III.501.B.5.D
IA-A1(1)	"A" LH2 Drier Reactivation Heater ,15.11A Heater 2.85 MM BTU/hr	LAC 33:III.501.B.5.A.1
IA-A1(2)	"A" LH2 Drier Reactivation Heater, 15.11B Heater 2.85 MM BTU/hr	LAC 33:III.501.B.5.A.1
IA-A1(3)	Air Plant Drier Reactivation Heater Flue Stack 03.47 Heater, 3.68 MM BTU/hr	LAC 33:III.501.B.5.A.1
IA-A1(4)	ITM, H-101 Reactor Feed Heater, 1.156 MM BTU/hr	LAC 33:III.501.B.5.A.1
IA-A1(5)	ITM, Z-103 Startup Boiler, 2.58 MM BTU/hr	LAC 33:III.501.B.5.A.1
IA-A5(1)	Warehouse Space Heaters (6) (0.2 MM BTU/hr each)	LAC 33:III.501.B.5.A.5
IA-A5(2)	ITM, H-102 Inline Burner, 0.247 MM BTU/hr	LAC 33:III.501.B.5.A.5
IA-A5(3)	ITM, H-103 Supplemental Steam Heater , 0.703 MM BTU/hr	LAC 33:III.501.B.5.A.5
IA-A3(3)	Canal Fire Pumps Diesel Storage Tank, 1500 gals	LAC 33:III.501.B.5.A.3
IA-A3(6)	Fire Water Diesel Tank, Front Pump House, 1000 gals	LAC 33:III.501.B.5.A.3
IA-A3(X)	Facility Vehicle Diesel Storage Tank, 6000 gals	LAC 33:III.501.B.5.A.3
IA-A3(22)	Oil Storage Tanks for Compressor Crankcases 550 gals each	LAC 33:III.501.B.5.A.3

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA

ID No.	Description	Citation
IA-A3(21)	Used Oil Storage Tanks for Compressors (3 tanks at 1000 gals each)	LAC 33:III.501.B.5.A.3
IA-A3(46)	ANCO Used Oil Storage Tank, 1000 gals	LAC 33:III.501.B.5.A.3
IA-A3(31)	Used Oil/Water Storage Tank, 1500 gals	LAC 33:III.501.B.5.A.3
IA-A2(8)	CO ₂ Plant Oil Day Tank, 80 gals	LAC 33:III.501.B.5.A.2
IA-A2(18)	Oil Makeup Tank for 10.11 A & B, 100 gals	LAC 33:III.501.B.5.A.2
IA-A2(11)	Oil Makeup Tanks for Compressor Bldg(3) (100 gals each)	LAC 33:III.501.B.5.A.2
IA-A3(XX)	Glycol Storage Tank (300 gal)	LAC 33:III.501.B.5.A.3
IA-A2(8)	Oil Makeup Tank (80 gal)	LAC 33:III.501.B.5.A.2
IA-A2(25)	Oil Makeup Tank for 01.10 CO ₂ Compressor (80 gal)	LAC 33:III.501.B.5.A.2

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:II Chapter																
		5	9	11	13	15	2103	2104	2109	2111	2113	2115	22	2301	29	51	52	56
UNF001	Unit Wide	1	1	1	1								1		1	1	1	1
EQT011	1, "C" HP CO2 Stripper Vent																	1
EQT013	30a, "C" HP Reformer Flue Stack																	
EQT014	30b, "C" HP Auxiliary Boiler																	
EQT015	31, "A" HP Reformer Flue Stack																	
EQT019	59, "C" HP Flare																	1
EQT023	82, Cooling Tower																	1
EQT024	83, Surface Impoundment																	1
EQT027	91, "B" CO2 Plant TSA Reactivation Vent																	2
EQT028	92, "A" HP 450 psig Steam Vent																	2
EQT030	94, "D" HP Reformer Flue Vent																	1
EQT031	95, Vent Header (PSA, H2 Product)																	1
EQT032	68, Facility Vehicle Gasoline Tank																	2
EQT033	97, H2 Steam Silencer Vent																	1
EQT034	98, Emergency Generator No. 1																	
EQT035	99, Emergency Generator No. 2																	
EQT036	100, Emergency Generator No. 3																	
EQT045	103, Wabash Boiler																	1
EQT046	104, "A" CO2 Plant TSA Reactivation Vent																	1
EQT048	200, ITM Syngas Flare																	1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5	9	11	13	15	2103	2104	2109	2111	2113	2115	22	2301	29	51	52	56	59
FUG001	80, NH3 Fug. Emissions																		
FUG002	85, Refinery Off-gas Pipeline Fug. Emissions																		
FUG004	96, "D" HP Fug. Emissions																		
FUG005	2011, ITM Syngas Process Fugitives																		
ARE002	76, " C" H2 Plant Startup/Shutdown	1																	
ARE003	77, "A" H2 Plant Startup/Shutdown	1																	

KEY TO MATRIX

- 1 -The regulations have applicable requirements, which apply to this particular emission source.
- 2 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 3 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- Blank - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR					
		A	Db	GG	QQQ	J	A	FF	V	A	F	G	CC	Q	D	S2
UNF001	Unit Wide	1													1	1
EQT011	1, "C" HP CO2 Stripper Vent															
EQT013	30a, "C" HP Reformer Flue Stack															
EQT014	30b, "C" HP Auxiliary Boiler	3														
EQT015	31, "A" HP Reformer Flue Stack														1	
EQT019	59, "C" HP Flare														1	
EQT023	82, Cooling Tower														2	
EQT024	83, Surface Impoundment															
EQT027	91, "B" CO2 Plant TSA Reactivation Vent															
EQT028	92, "A" HP 450 psig Steam Vent															
EQT030	94, "D" HP Reformer Flue Vent															
EQT031	95, Vent Header (PSA, H2 Product)															
EQT032	68, Facility Vehicle Gasoline Storage Tank															
EQT033	97, H2 Steam Silencer Vent															
EQT034	98, Emergency Generator No. 1															
EQT035	99, Emergency Generator No. 2															
EQT036	100, Emergency Generator No. 3															
EQT045	103, Wabash Boiler															
EQT046	104, "A" CO2 Plant TSA Reactivation Vent															
EQT048	200, ITM Syngas Flare															

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR				
		A	Db	GG	QQQ	J	A	FF	V	A	F	G	CC	Q	D	S2	64	68
FUG001	80, "A" CO2 Plant Fug. Emissions																	
FUG002	85, Refinery Off-gas Fug. Emissions																	
FUG004	96, "D" HP Fug. Emissions																	
FUG005	201, ITM Syngas Process Fugitives																	
ARE002	76, "C" H2 Plant Startup/Shutdown																	
ARE003	77, "A" H2 Plant Startup/Shutdown																	

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NOLA FACILITY
AGENCY INTEREST NO. 2062
AIR PRODUCTS AND CHEMICALS, INC.
NEW ORLEANS, ORLEANS PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
Unit Wide	40 CFR 61, Subpart FF - National Emission Standards for Benzene Waste Operation	Exempt	40 CFR 61.342	Initial report indicated that the total annual benzene from the wastewater discharge at the outfall is not detectable
EQT27, EQT28, EQT31, and EQT33 EQT14	Emission Standards for Volatile Organic Compounds – Waste Gas Disposal NSPS, Subpart Db – Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR 60.40b	Exempt Does not apply	LAC 33:III.2115H.1.d 40 CFR 60.40b(a)	Waste gas streams contain less than 30,000 ppm of VOC No construction or modification after June 19, 1984
EQT23	Cooling Water Tower Fugitives	Exempt	40 CFR 63.400	Does not use chromium containing corrosion inhibitors

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

AI ID: 2062 Air Products & Chemicals Inc - Industrial Gas Production Facility
Activity Number: PER20080004
Permit Number: 2140-00016-V6
Air - Title V Regular Permit Renewal

General Information

Also Known As:	ID	Name	User Group	Start Date
	2140-000116	Air Products & Chemicals Inc - Industrial Gas Production Facility	CDS Number	08-05-2002
	23-1274455	Federal Tax ID	Federal Tax ID	11-20-1989
LADD041222365		Air Products & Chemicals Co	Hazardous Waste Notification	08-08-1983
LA00003280		LPDES #	LPDES Permit #	05-22-2003
LAR05N094		LPDES #	LPDES Permit #	11-21-1999
WP1537		LWDPSS #	LWDPSS Permit #	06-25-2003
GL-205		Priority 2 Emergency Site	Priority 2 Emergency Site	07-19-2006
GD-071-1648		Radiation General License	Radiation License Number	12-18-2000
GD-071-1648		Air Products & Chemicals Co	Solid Waste	01-08-2002
30592		Site ID #	Solid Waste Facility No.	04-30-2001
40516		Air Products & Chemicals Inc	TEMPO Merge	01-18-2001
70129RPRDC14700		Air Products & Chemicals Co	TEMPO Merge	01-18-2001
360001116		TRI #	Toxic Release Inventory	07-06-2004
		UST Facility ID (from UST legacy data)	UST FID #	10-11-2002
Physical Location:			Main FAX:	5042546270
			Main Phone:	5042541590
Mailing Address:				
Location of Front Gate:		14700 Intracoastal Dr New Orleans, LA 70129	Coordinate Method: Lat \ Long - DMS. Coordinate Datum: NAD83	
Related People:		Name	Phone (Type)	Relationship
			Mailing Address	
		Lisa Ann Cich	4575 Hwy 90 Pace, FL 32571	Emission Inventory Contact for
		Lisa Ann Cich	4575 Hwy 90 Pace, FL 32571	Emission Inventory Contact for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Asbestos Contact for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Air Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Solid Waste Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Water Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Radiation License Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Accident Prevention Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Air Billing Contact for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	UST Billing Party for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Underground Storage Tank Contact for
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Radiation Contact For
		Dan Diller	14700 Intracoastal Dr New Orleans, LA 70129	Water Permit Contact For

General Information

AI ID: 2062 Air Products & Chemicals Inc - Industrial Gas Production Facility

Activity Number: PER20080004

Permit Number: 2140-00016-V6

Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Brian Gebbia	14700 Intracoastal Dr New Orleans, LA 70129	5042546203 (WP)	Employed by
	Joseph Pietrantonio			Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Air Products & Chemicals Inc	7201 Hamilton Blvd Allentown, PA 18195	6104814911 (WP)	Operates
	Air Products & Chemicals Inc	14700 Intracoastal Dr New Orleans, LA 70129	5042546202 (WP)	Emission Inventory Billing Party
	Air Products & Chemicals Inc	14700 Intracoastal Dr New Orleans, LA 70129	5042546202 (WP)	UST Billing Party for
	Air Products & Chemicals Inc	7201 Hamilton Blvd Allentown, PA 18195	6104814911 (WP)	Owns

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

INVENTORIES

AJ ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
NOLA FACILITY						
ARE 0002	176 - "C" H2 Plant Startup/Shutdown					82 hr/yr
ARE 0003	77 - "A" H2 Plant Startup/Shutdown					135 hr/yr
EQT 0011	1 - "C" H2 Plant CO2 Stripper Vent					8760 hr/yr
EQT 0013	30a - "C" H2 Plant Reformer Flue Stack		13238 SCFM	13238 SCFM		8760 hr/yr
EQT 0014	30b - "C" H2 Plant Auxiliary Boiler		481.2 MM BTU/hr	481.2 MM BTU/hr		8760 hr/yr
EQT 0015	31 - "A" H2 Plant Reformer Flue Stack		75 MM BTU/hr	48.97 MM BTU/hr		8760 hr/yr
EQT 0019	59 - "C" H2 Plant Flare		168 MM BTU/hr	168 MM BTU/hr		8760 hr/yr
EQT 0023	82 - Cooling Towers		4.78 MM BTU/hr	4.78 MM BTU/hr		480 hr/yr
EQT 0024	83 - Surface Impoundment		90300 gallons/min	90300 gallons/min		8760 hr/yr
EQT 0027	91 - "B" CO2 Plant TSA Reactivation Vent		3 MM ft^3/yr	3 MM ft^3/yr		8760 hr/yr
EQT 0028	92 - "A" H2 Plant 450 PSIG Steam Vent		130 tons/day	130 tons/day		760 hr/yr
EQT 0030	94 - "D" H2 Plant Reformer Vent		200000 lb/hr	200000 lb/hr		8760 hr/yr
EQT 0031	95 - "D" H2 Plant Vent Header		347.96 MM BTU/hr	289.97 MM BTU/hr		166 hr/yr
EQT 0032	68 - Facility Vehicle Gasoline Storage Tank	6000 gallons	590000 scf/hr	590000 scf/hr		8760 hr/yr
EQT 0033	97 - "D" H2 Steam Silencer Vent	29603 lb/hr				3705 hr/yr
EQT 0034	98 - Rental Emergency Generator No. 1		1250 kW	1250 kW		720 hr/yr
EQT 0035	99 - Rental Emergency Generator No. 2		1000 kW	1000 kW		720 hr/yr
EQT 0036	100 - Rental Emergency Generator No. 3		1000 kW	1000 kW		528 hr/yr
EQT 0045	103a - Wabash Boiler		152 MM BTU/hr	126.7 MM BTU/hr		876 hr/yr
EQT 0046	104 - "A" CO2 Plant TSA Reactivation Vent		350 tons/yr	350 tons/yr		8760 hr/yr
EQT 0048	200 - ITM Syngas Flare		17.1 MM BTU/hr	17.1 MM BTU/hr		8760 hr/yr
FUG 0001	80 - NH3 Fugitive Emissions - "A" CO2 Plant					8760 hr/yr
FUG 0002	85 - Refinery Off-gas Pipeline Fugitive Emissions					8760 hr/yr
FUG 0004	96 - "D" H2 Plant Fugitive Emissions					8760 hr/yr
FUG 0005	201 - ITM Syngas Process Fugitives					8760 hr/yr
Stack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
NOLA FACILITY						
EQT 0011	1 - "C" H2 Plant CO2 Stripper Vent	42	5500	1.67		92
EQT 0013	30a - "C" H2 Plant Reformer Flue Stack	58.4	176100	8		70
EQT 0014	30b - "C" H2 Plant Auxiliary Boiler	58.4	176100	8		70
EQT 0015	31 - "A" H2 Plant Reformer Flue Stack	78	74300	4.5		82
EQT 0019	59 - "C" H2 Plant Flare	250	8230	83		50
EQT 0023	82 - Cooling Towers	0.3		25		58
EQT 0027	91 - "B" CO2 Plant TSA Reactivation Vent	198	583	25		68
						12
						400

INVENTORIES

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
NOLA FACILITY								
EQT 0028	92 - "A" H2 Plant 450 PSG Steam Vent		25.7	10527	3.2		40	320
EQT 0030	94 - "D" H2 Plant Reformer Vent		72.88	89243	6.5		75	300
EQT 0031	95 - "D" H2 Plant Vent Header		77	1267	.67		100	100
EQT 0032	68 - Facility Vehicle Gasoline Storage Tank						70	
EQT 0033	97 - "D" H2 Steam Silencer Vent				.33		65	650
EQT 0045	103a - Wabash Boiler		30	61146	3		36	775
EQT 0048	200 - ITM Syngas Flare		161	1957	.5		50	1000

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
UNF 0001	Unit or Facility Wide	Air Products - NOLA FACILITY

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multipiler	Units Of Measure
0440	0440 Industrial Gases		
2813	Industrial gases	UNF 001	

SIC Codes:

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
NOLA FACILITY															
ARE 0002 ⁷⁶			171.16												
ARE 0003 ⁷⁷	10.99	10.99	48.15												
EQT 0011 ¹	1.76	2.11	7.70												
EQT 0013 ^{30a}	8.05	8.05	35.26	55.26	55.26	242.04	3.37	3.37	14.75	2.45	2.45	10.74	2.60	2.60	11.38
EQT 0014 ^{30b}	7.25	7.25	31.74	7.51	11.68	32.91	0.34	0.53	1.48	0.25	0.38	1.08	0.26	0.41	1.14
EQT 0015 ³¹	0.84	0.84	3.68	5.54	5.54	24.28	1.26	5.52	0.01	0.01	0.03	0.91	0.91	0.91	3.97
EQT 0019 ⁵⁹	0.28	0.34	0.07	5.69	6.83	1.37	0.002	0.002	<0.001	<0.001	<0.001	0.11	0.11	0.13	0.03
EQT 0023 ⁶²													0.69	0.69	3.01
EQT 0024 ⁶³													0.004	0.004	0.02
EQT 0027 ⁹¹													1.47	1.97	7.18
EQT 0028 ⁹²													13.06	19.47	4.36
EQT 0030 ⁹⁴	0.13	0.15	0.56	9.28	11.14	40.64	3.48	4.18	15.24	0.01	0.05	0.06	5.80	6.96	25.40
EQT 0031 ⁹⁵	1998.33	9431.70	165.53										0.43	2.11	0.04
EQT 0032 ⁶⁸													0.01	0.01	0.05
EQT 0033 ⁹⁷													3.68	5.12	6.82
EQT 0034 ⁹⁸	25.11	9.04	20.26	7.30	1.19	0.43	1.53	0.55	2.86	2.86	2.86	1.03			
EQT 0035 ⁹⁹	3.05	3.05	1.10	24.35	8.77	0.26	0.10	1.79	1.79	0.64	0.26	0.26	0.10		
EQT 0036 ¹⁰⁰	3.05	3.05	0.81	24.35	6.43	0.26	0.07	1.79	1.79	0.47	0.26	0.26	0.07		
EQT 0045 ^{103a}	9.37	11.24	4.10	15.08	18.10	6.61	0.94	1.13	0.41	0.08	0.03	0.68	0.82	0.30	
EQT 0046 ¹⁰⁴													4.41	5.30	19.33
EQT 0048 ²⁰⁰	5.55	6.94	24.33	1.21	1.51	5.30	0.01	0.01	<0.01	<0.01	0.01	0.01	0.01	0.04	
FUG 0002 ⁶⁵													1.18		5.16
FUG 0004 ⁹⁶	0.11		0.47										<0.001		<0.001

TP080145

Page 1 of 2

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility

Activity Number: PER20080004

Permit Number: 2140-00016-V6

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/hr	Avg lb/hr	Max lb/hr	Tons/Year									
NOLA FACILITY															
FUG 0005 201	0.14	0.63											0.091		0.37

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0011 1	Ammonia	6.10	7.32	26.72
	Methanol	13.96	16.75	61.14
EQT 0019 59	Ammonia	2.08	2.50	0.50
EQT 0023 82	Ammonia	0.62	0.62	2.70
	Methanol	0.69	0.69	3.01
EQT 0024 83	Ammonia	0.07	0.07	0.29
	Methanol	0.004	0.004	0.02
EQT 0027 91	Ammonia	0.001	0.001	0.004
	Methanol	1.47	1.97	7.18
EQT 0028 92	Ammonia	27.50	40.38	9.05
	Methanol	13.06	19.47	4.36
EQT 0030 94	Benzene	0.001	0.001	0.003
	Formaldehyde	0.021	0.025	0.092
	Naphthalene	<0.001	<0.001	0.001
	Toluene	0.001	0.001	0.004
	n-Hexane	0.504	0.605	2.209
EQT 0031 95	Methanol	0.41	1.63	0.03
EQT 0033 97	Ammonia	0.85	2.46	1.58
	Methanol	3.36	4.68	6.22
EQT 0046 104	Ammonia	0.002	0.003	0.01
	Methanol	4.41	5.30	19.33
FUG 0001 80	Ammonia	0.06		0.27
FUG 0004 96	Hydrogen sulfide	<0.001		<0.001
	Methanol	<0.001		<0.001
UNF 0001 Air Products	Ammonia			41.12
	Benzene			0.003
	Formaldehyde			0.09
	Hydrogen sulfide			<0.001
	Methanol			101.29
	Naphthalene			0.001
	Toluene			0.004
	n-Hexane			2.21

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
Activity Number: PER20080004
Permit Number: 2140-00016-V6
Air - Title V Regular Permit Renewal

attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AJ ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

EQT 0011 1 - "C" H2 Plant CO2 Stripper Vent

- 1 [LAC 33:III.5109.A]
 2 [LAC 33:III.5113.B.6]

The source emits Class III TAPs. No MACT required.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0013 30a - "C" H2 Plant Reformer Flue Stack

- 3 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel!).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel!).

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

EQT 0014 30b - "C" H2 Plant Auxiliary Boiler

- 6 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel!).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel!).

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total heat input for each month, as well as the total heat input for the last twelve consecutive months. Make records available for inspection by DEQ personnel. Heat <= 428977 MM BTU/jr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the corresponding calculated NOX emission exceeds 32.91 tons per year in this specific condition for any twelve consecutive month period.

Which Months: All Year Statistical Basis: Twelve-month rolling average (rolling 1-month basis)

Submit report: Due annually, by the 31st of March. Report the heat input and the corresponding calculated NOX emissions for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

EQT 0015 31 - "A" H2 Plant Reformer Flue Stack

- 11 [40 CFR 64.6(c)(1)]

The temperature shall be collected and logged by DCS or Nexigen control system. Temperature monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS**AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility****Activity Number: PER20080004****Permit Number: 2140-00016-V6****Air - Title V Regular Permit Renewal****EQT 0015 31 - "A" H2 Plant Reformer Flue Stack**

- 12 [40 CFR 64.8(a)]
 Temperature: 1550 degrees F is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
 Permittee shall comply with the requirements of 40 CFR 64 - Compliance Assurance Monitoring. Operate the equipment with good engineering practices and maintain temperature equal to or greater than 1550 degrees F. The temperature shall be collected and logged by DCS or Nextgen control system. Any logging equipment bypass shall be recorded with the reasons for bypass and the remedial actions if any. The opacity shall be visually checked every week and data logged.
- 14 [LAC 33:III.1101.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 15 [LAC 33:III.1313.C].
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0019 59 - "C" H2 Plant Flare

- 16 [40 CFR 64.3(b)(3)]
 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 17 [40 CFR 64.4(e)]
 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 18 [40 CFR 64.6(c)(1)]
 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 An excursion or exceedance is defined as operating without a pilot flame. [40 CFR 64.6(c)(2)]
- 19 [40 CFR 64.6(c)(2)]
 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 20 [40 CFR 64.6(c)(2)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]
- 21 [40 CFR 64.6(c)(4)]
 Schedule for installation, testing or final verification of operational status. [40 CFR 64.6(d)]
- 22 [40 CFR 64.6(d)]
 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 23 [40 CFR 64.7(a)]
 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-0016-V6
 Air - Title V Regular Permit Renewal

EQT 0019 59 - "C" H2 Plant Flare

- 25 [40 CFR 64.7(c)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 26 [40 CFR 64.7(d)(1)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 27 [40 CFR 64.7(e)] Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 28 [40 CFR 64.8(a)] Existing of a pilot flame at all time is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 29 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 30 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 31 [40 CFR 64.9(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 32 [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 33 [LAC 33:III.1105] Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify by telephone at (225) 763-3908 during office hours; (225) 342-1234 after hours, weekends, and holidays; or by e-mail utilizing the Incident Report Form and procedures found at www.deq.state.la.us/surveillance. Notification is required only if the upset cannot be controlled in six hours.
- 34 [LAC 33:III.1105] Opacity < 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None Specified

SPECIFIC REQUIREMENTS**AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility****Activity Number: PER20080004****Permit Number: 2140-00016-V6****Air - Title V Regular Permit Renewal****EQT 0019 59 - "C" H2 Plant Flare**

35 [LAC 33:III.1107] Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized.

36 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.

37 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified

Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 200 BTU/scf.

Which Months: All Year Statistical Basis: None specified

Flare gas: Heat content recordkeeping by electronic or hard copy annually.

38 [LAC 33:III.501.C.6] Presence of a flame recordkeeping by electronic or hard copy continuously. [LAC 33:III.501.C.6, 40 CFR 64]

39 [LAC 33:III.501.C.6] Flare gas: Heat content > 200 BTU/scf, to ensure destruction of emissions to the flare stack.

40 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified

Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

42 [LAC 33:III.501.C.6] Presence of a flame monitored by heat sensing device continuously.

Which Months: All Year Statistical Basis: None specified

The source emits Class III TAPs. No MACT required.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0023 82 - Cooling Towers

45 [LAC 33:III.5109.A] The source emits Class III TAPs. No MACT required.

EQT 0024 83 - Surface Impoundment

46 [LAC 33:III.5109.A] The source emits Class III TAPs. No MACT required.

EQT 0027 91 - "B" CO2 Plant TSA Reactivation Vent

47 [LAC 33:III.5109.A] The source emits Class III TAPs. No MACT required.

48 [LAC 33:III.5113.B.6] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0028 92 - "A" H2 Plant 450 PSIG Steam Vent

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility

Activity Number: PER200B0004

Permit Number: 2140-D0016-V6

Air - Title V Regular Permit Renewal

EQT 0028 92 - "A" H2 Plant 450 PSIG Steam Vent

The source emits Class III TAPs. No MACT required.

EQT 0030 94 - "D" H2 Plant Reformer Vent

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

The source emits Class III TAPs. No MACT required.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0031 95 - "D" H2 Plant Vent Header

The source emits Class III TAPs. No MACT required.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0032 68 - Facility Vehicle Gasoline Storage Tank

Equip with a submerged fill pipe.

Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.f.1 - 7, as applicable.

EQT 0033 97 - "D" H2 Steam Silencer Vent

The source emits Class III TAPs. No MACT required.

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

EQT 0045 103a - Wabash Boiler

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
Activity Number: PER20080004
Permit Number: 2140-00016-V6
Air - Title V Regular Permit Renewal

EQT 0045 103a - Wabash Boiler

- 61 [40 CFR 60.49b(h)]
 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 66 [LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: None specified
 Permittee shall continuously monitor the heat input to the Wabash Boiler, Emission Point 103. Based on the monitored heat input and the criteria pollutants individual emission factors the permittee shall calculate emissions from the boiler. The total heat input to the boiler shall not exceed 110,989.2 MM BTU/yr and the total calculated emissions from the boiler shall not exceed PM10, 0.41 tons per year (TPY); SO2, 0.03 TPY; NOX, 6.61 TPY; CO, 4.10 TPY; and VOC, 0.30 TPY. Emissions from this boiler shall be reported under its emission point. The total heat input and the calculated emissions of the boiler shall be recorded each month, as well as the total heat input and the total calculated emissions for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The total heat input and calculated emissions based on the heat input above the maximum listed in this permit as referenced above for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the heat input of the boiler and the total calculated emissions for the last twelve months shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

EQT 0048 200 - ITM Syngas Flare

- 67 [LAC 33:III.1105]
 Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- 68 [LAC 33:III.1105]
 Which Months: All Year Statistical Basis: None specified
 Submit report: Due in writing to SPOC within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized.
- 69 [LAC 33:III.1107]
 Presence of a flame recordkeeping by electronic or hard copy continuously.
- 70 [LAC 33:III.501.C.6]
 71 [LAC 33:III.501.C.6]
 Presence of a flame monitored by heat sensing device continuously.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility

Activity Number: PER20080004

Permit Number: 2140-00016-V6

Air - Title V Regular Permit Renewal

EQT 0048 200 - ITM Syngas Flare

72 [LAC 33:III.501.C.6]

Flare gas: Heat content > 200 BTU/scf, to ensure destruction of emissions to the flare stack.
Which Months: All Year Statistical Basis: None specified

73 [LAC 33:III.501.C.6]

Flare gas: Heat content recordkeeping by electronic or hard copy annually.

74 [LAC 33:III.5109.A]

The source emits Class III TAPs. No MACT required.

FUG 0001 80 - NH3 Fugitive Emissions - "A" CO2 Plant

75 [LAC 33:III.5109.A]

The source emits Class III TAPs. No MACT required.

FUG 0002 85 - Refinery Off-gas Pipeline Fugitive Emissions

76 [LAC 33:III.2111.]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

FUG 0004 96 - "D" H2 Plant Fugitive Emissions

77 [LAC 33:III.2111.]

Equip all rotary pumps and compressors with mechanical seals.

78 [LAC 33:III.5109.A]

The source emits Class III TAPs. No MACT required.

79 [LAC 33:III.5113.B.6]

Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

FUG 0005 201 - ITM Syngas Process Fugitives

80 [LAC 33:III.5109.A]

The source emits Class III TAPs. No MACT required.

UNF 0001 Air Products - NOLA FACILITY

81 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

82 [40 CFR 61.]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

83 [40 CFR 70.5(a)(1)(iii)]

Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

84 [40 CFR 70.6(a)(3)(iii)(A)]

Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
Activity Number: PER20080004
Permit Number: 2140-00016-V6
Air - Title V Regular Permit Renewal

UNF 0001 Air Products - NOLA FACILITY

- 85 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 86 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 87 [40 CFR 82.Subpart F] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 88 [LAC 33:III.1103] Outdoor burning of waste material or other combustible material is prohibited.
- 89 [LAC 33:III.1109.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensity an existing traffic hazard condition are prohibited.
- 90 [LAC 33:III.1303.B] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 91 [LAC 33:III.2113.A] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 92 [LAC 33:III.219] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 93 [LAC 33:III.2901.D] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 94 [LAC 33:III.2901.F] STATE SPECIFIC CONDITION: Fugitive Emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: a) Changes in fugitive components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; b) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; c) Actual emissions following the changes will not exceed the emission limits contained in this permit; and d) The components are promptly incorporated into any applicable leak detection and repair program.
- 95 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS**AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility****Activity Number: PER2008004****Permit Number: 2140-00016-V6****Air - Title V Regular Permit Renewal****UNF 0001 Air Products - NOLA FACILITY**

- 96 [LAC 33:III.501.C.6] Permittee shall ensure compliance with the particulates and opacity emission limits of this permit by visually inspecting the boilers, reformers, and flares, Emission Points 30a, 30b, 31, 59, and 94 for opacity on a weekly basis. Visible emissions will be considered a violation on the 20% opacity limit. Corrective measures shall be taken as necessary. Records of opacity checks shall include Emission Point ID, date visual check performed, a record if visible emissions were detected, and a record of any corrective actions taken. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 97 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test. Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and establish the operating range based upon flue gas oxygen content. The emission test shall be performed at four operating conditions: 1)Normal load with high oxygen, 2)Normal load with low oxygen, 3)Maximum load with high oxygen and 4)Maximum load with low oxygen. A one hour run shall be performed at conditions 1, 2, and 4. Three one hour runs shall be performed at the maximum load with high oxygen condition. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix B, Performance Specification 3 for the continuous oxygen monitor. The O2 monitor shall be monitored in accordance with NSPS Appendix F. Use alternate stack testing methods only when the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 98 [LAC 33:III.507.H.1.a] Equipment/operational data recordkeeping by electronic or hard copy annually. Oxygen recordkeeping by continuous emission monitor (CEM) continuously. Alarms shall be set to sound when the flue gas oxygen content is outside of the established range and corrective action shall be taken any time and alarm is sounded. These record and records of alarm and corrective actions shall be maintained in site and available for inspection upon request by authorized representative of the Department.
- 99 [LAC 33:III.507.H.1.a] To ensure compliance with the permit limits, permittee shall install and operate a continuous flue gas oxygen monitors in accordance with "Use of Flue Gas Oxygen Monitors and BACT for Combustion Controls" for the "C" H2 Plant Reformer and Auxiliary Boiler, Emission Points 30a and 30b, respectively.
- 100 [LAC 33:III.507.H.1.a] Within 45 days of the completion of the performance tests, the oxygen CEMS certification, 30-day NOx test, and Operation Window test, the monitoring plan and compliance test report shall be submitted to the DEQ Office of Environmental Assessment. After the monitoring plan so approved, the facility shall apply for a permit administrative amendment to incorporate the allowable oxygen limits and other operating parameters into the permit.
- 101 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 102 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 103 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 104 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 105 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

UNF 0001 Air Products - NOLA FACILITY

- 106 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 107 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 108 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 109 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 110 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 111 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 112 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 113 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 114 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 115 [LAC 33:III.535 and 537] Permittee shall comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
- 116 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 117 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

SPECIFIC REQUIREMENTS

AI ID: 2062 - Air Products & Chemicals Inc - Industrial Gas Production Facility
 Activity Number: PER20080004
 Permit Number: 2140-00016-V6
 Air - Title V Regular Permit Renewal

UNF 0001 Air Products - NOLA FACILITY

- 118 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later.
- Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.
- Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.